

Fig.1

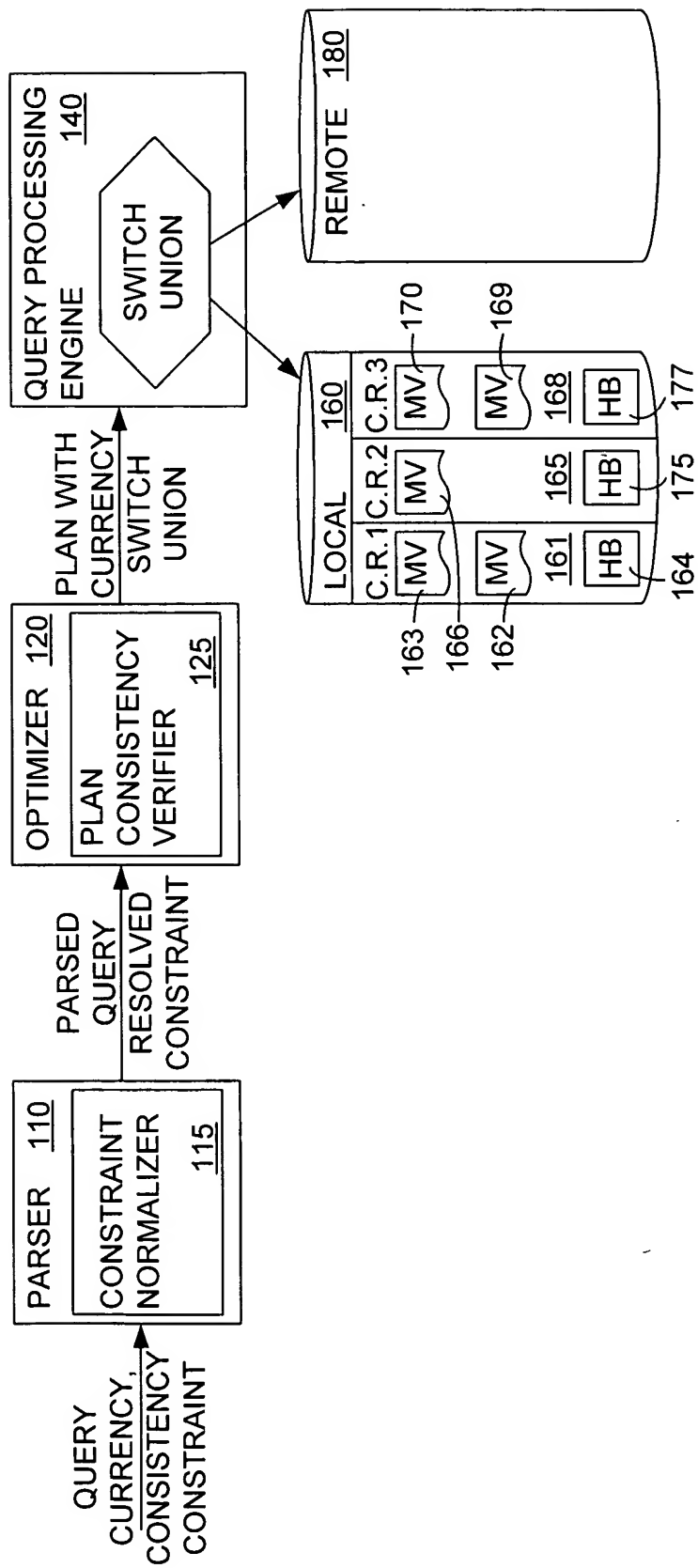


Fig.2

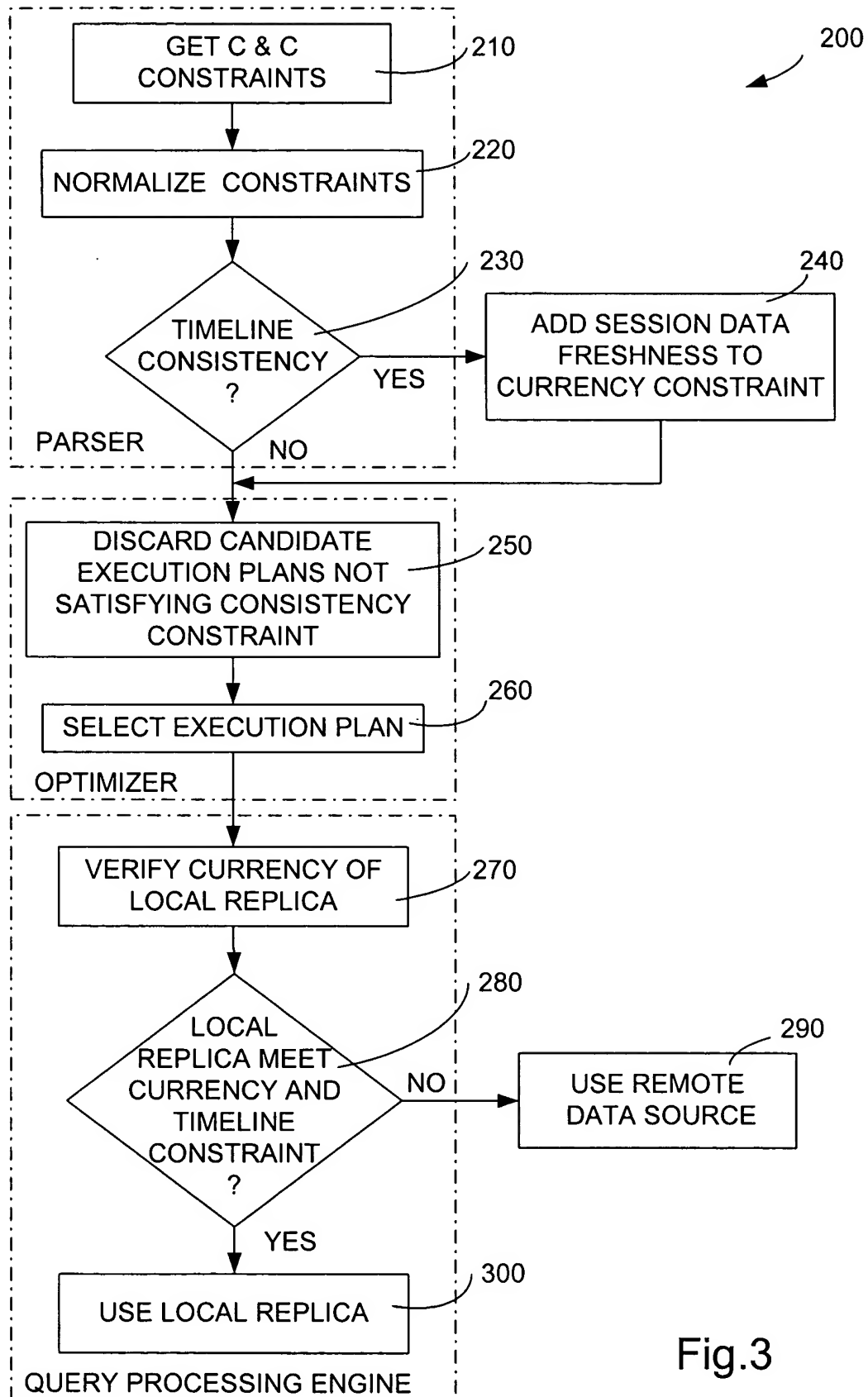


Fig.3

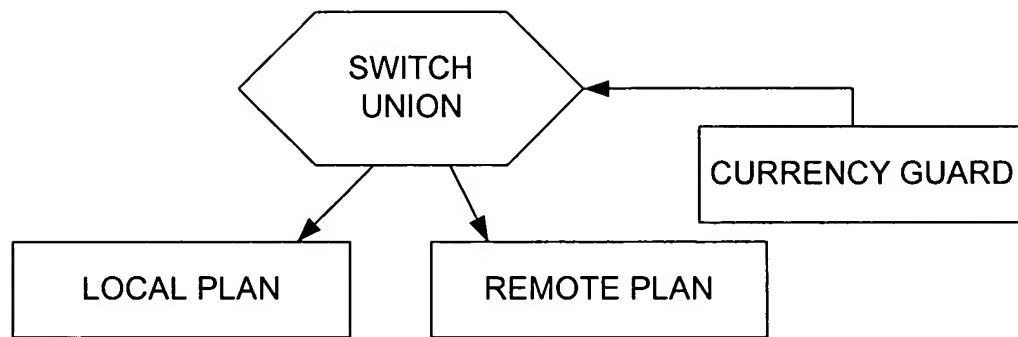


Fig.4

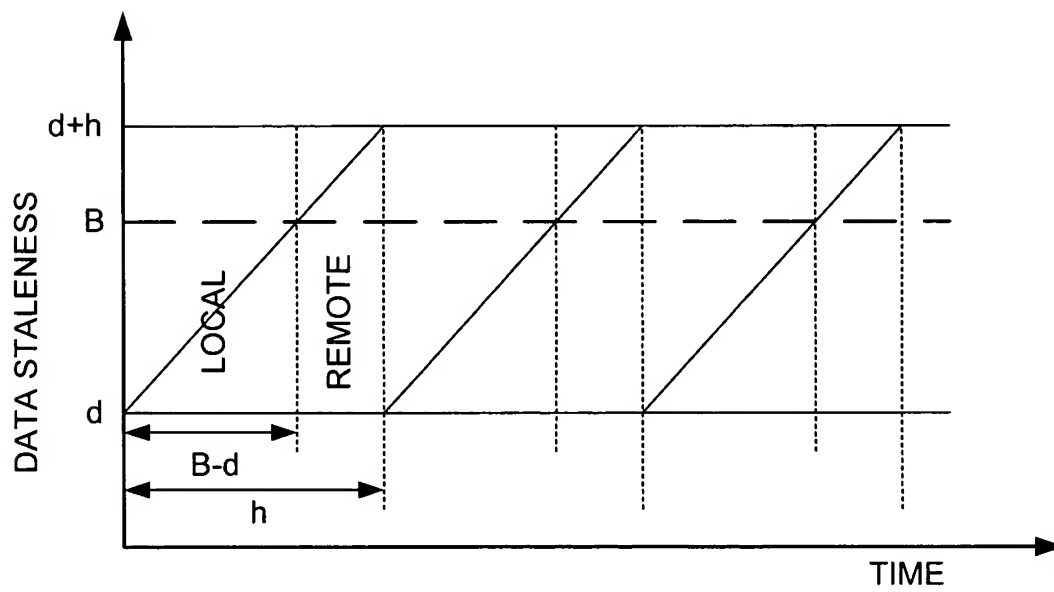


Fig.5

	cid	interval	delay	views
CR1	1	15	5	orders_prj
CR2	2	10	5	cust_prj

Fig.6a

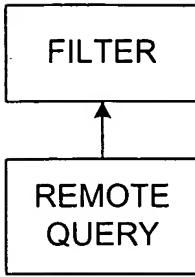
S1: SELECT c_custkey, c_name, o_orderkey, o_totalprice
FROM from customer, orders
WHERE c_custkey = o_custkey [AND c_custkey<\$K]
[CURRENCY clause]

S2: SELECT c_custkey, c_name FROM customer
WHERE c_acctbal between \$A and \$B
CURRENCY BOUND 10 on (customer)

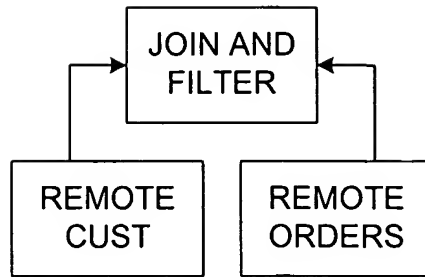
Fig.6b

Q1: \$K = 500	P1
Q2: No range predicate; no currency clause	P2
Q3: \$K = 500; BOUND 10 ON (customer, orders)	P1
Q4: \$K = 500; BOUND 2 ON (customer), BOUND 20 on (orders)	P4
Q5: \$K = 500; BOUND 10 ON (customer), BOUND 20 on (orders)	P5
Q6: \$A = 100; \$B = 105	P1
Q7: \$A = 100; \$B = 110	P3

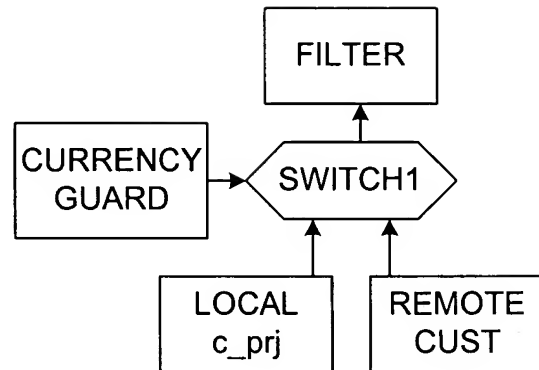
Fig.6c



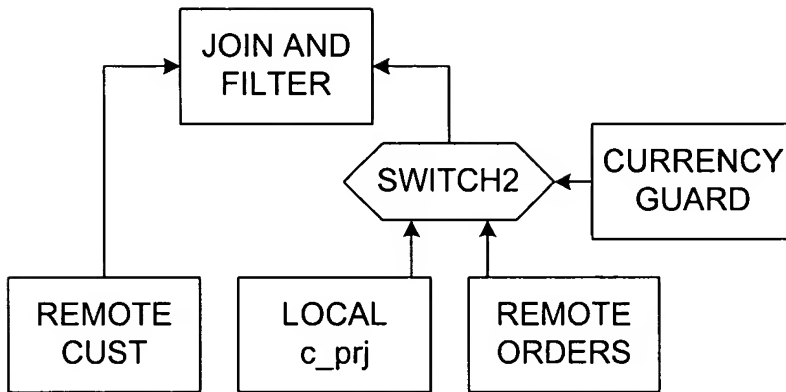
PLAN 1
Fig.7a



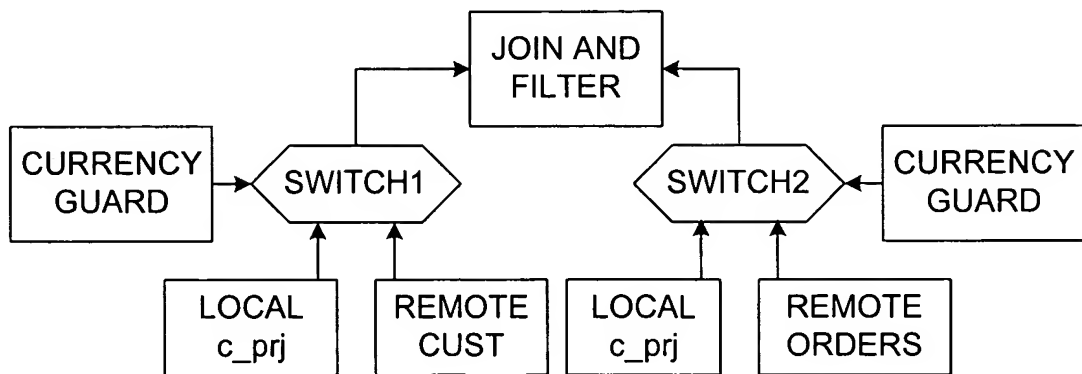
PLAN 2
Fig.7b



PLAN 3
Fig.7c



PLAN 4
Fig.7d



PLAN 5
Fig.7e